

Get started

Run it locally

🕒 3 min read · Updated 25 September 2026

From a fresh clone to the API, the website and this wiki running on your machine, with the gates CI runs — and what to do when a step fails.

<https://docs.gurbanisoul.com/onboarding/run-it-locally/>

Everything here runs on a laptop with no accounts and no network after the first download. The server is Python standard library only; the website and the wiki need Node.

1. Toolchain

Tool	Version	Why
Python	3.12 (.python-version)	the API, the tools, the gates. On macOS, Homebrew's <code>python3</code> is fine; avoid the system <code>/usr/bin/python3</code>
Node	22 (.nvmrc)	the website (<code>frontend/</code>) and the wiki (<code>docs-site/</code>)
git	any recent	the repository (no Git LFS is needed here — the database is installed by pin)
make	any	the entry points below

```
git clone https://github.com/Algorythmos-AI/sggs-platform.git
cd sggs-platform
make doctor           # checks python, node and whether the database is installed
```

2. The database (pinned, verified)

The scripture database is not in this repository. `dataset.lock.json` names the sggs-data commit and the sha256 of the exact object to serve; `make dataset` downloads it (~104 MiB), verifies the checksum and size, and installs it atomically as `db/sggs.sqlite` (git-ignored).

```
make dataset           # install db/sggs.sqlite from the pin
make dataset-check     # prove sggs-data publishes that object at the pinned commit
```

3. The API and the site

```
cd webapp && python3 serve.py
# → http://localhost:7777 (override with SGGS_PORT)
```

Open <http://localhost:7777> for the prebuilt website served from `webapp/static/`, and check the API is whole:

```
curl -s http://localhost:7777/api/health | python3 -m json.tool
```

Every value under checks must be true: 60,658 lines, 1,430 Angs, FTS5 working, the Mool Mantar verbatim, at least 560

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, the verifier alive. Then try a search and a page:

```
curl -s 'http://localhost:7777/api/search?q=sat%20nam&limit=3' | python3 -m json.tool
curl -s 'http://localhost:7777/api/ang/1' | python3 -m json.tool | head -40
```

Every line comes back verbatim with its Ang. That is the only way scripture ever reaches a screen.

4. The website source (optional)

```
cd frontend && npm ci && npm run dev      # http://localhost:4321, calls the API on :7777
npm run build:deploy                       # builds and syncs dist/ into webapp/static/
```

5. This wiki

```
make docs-dev      # http://localhost:4322 – live reload; /api proxied to serve.py on :7777
make docs-check    # the docs gates: frontmatter, links, widgets, palette, the scripture rule
make docs          # full build with every Mermaid fence rendered and every link validated
```

6. The gates CI runs

```
make ci          # versions unified · dataset pin · platform tests · contract drift
· docs gates
```

`make ci` is the no-PDF subset of what a pull request runs; the scripture gates themselves run in `sggs-data`. The full list, with what each check proves, is in [CI gates](#).

When something fails

Symptom	Cause	Fix
db/sggs.sqlite missing – run: make dataset	fresh clone	make dataset
/api/health has a false check	a partial or wrong database	make dataset-check, then make dataset again

Symptom	Cause	Fix
<code>serve.py</code> says a table is missing at startup	<code>SGGS_MODULES</code> set to a subset without its slice	unset it, or point <code>SGGS_DB</code> at a slice from <code>make slices</code>
<code>python3</code> is 3.9 or the system interpreter	macOS default on <code>PATH</code>	use Homebrew's 3.12; <code>make doctor</code> tells you which one it found
<code>npm ci</code> fails on a platform binary	<code>node_modules</code> copied from another machine	delete <code>node_modules</code> and run <code>npm ci</code> again
the wiki build says a Mermaid diagram failed	a syntax error in a fence	the message names the file and diagram; GitHub's preview of the same fence helps
the wiki build cannot find Chromium	Playwright browsers not installed	<code>cd docs-site && npx playwright install chromium</code>

More detail on the layout of the repository and the API is in [Local setup, repository map & API.](#)

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